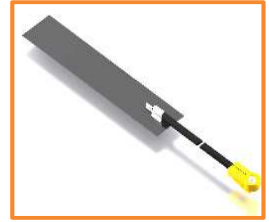
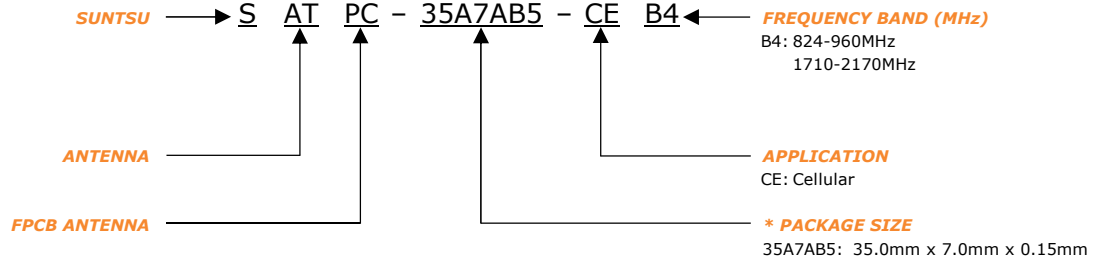


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - 3G/GSM - FPCB Type - Stable And Reliable Performance - 824-960MHz & 1710-2170MHz - Compact Size With Efficient Reception 	<ul style="list-style-type: none"> - GSM/3G Position Routers & Tracking Systems - Automotive Sensors - Smart Home Devices - Machine To Machine Wireless Communication - Mobile Systems



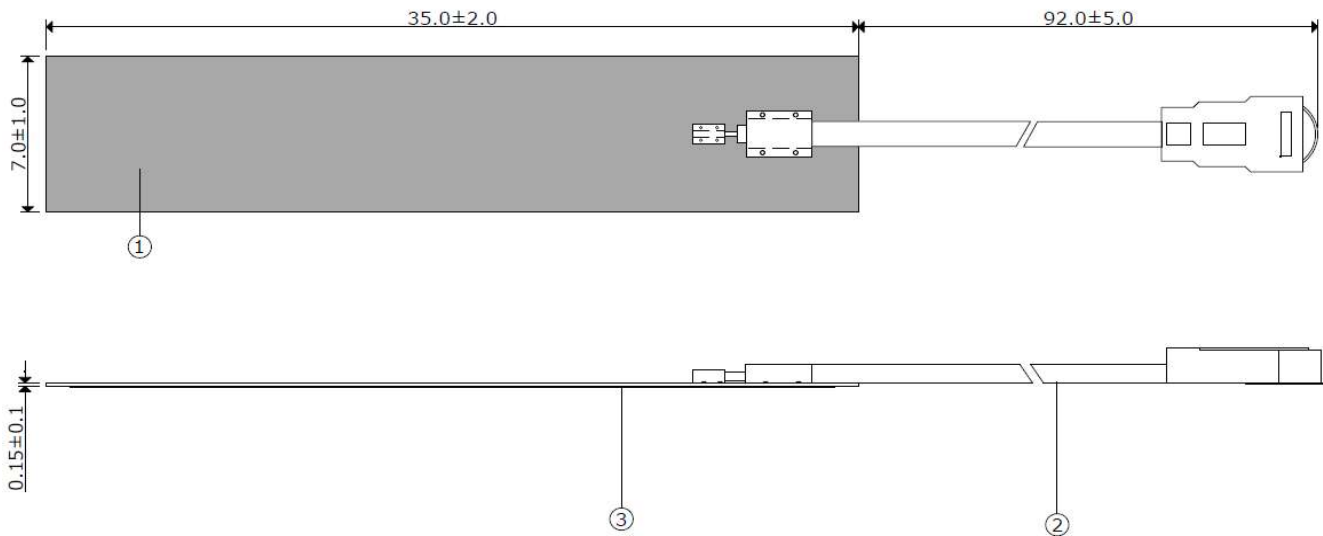
PART NUMBERING GUIDE



* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0
 To customize your parameters, contact a Suntsu representative.

ELECTRICAL PARAMETERS (At 25°C)	UNITS	MIN.	TYP.	MAX	REMARKS
Frequency Band	MHz	824		960	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		0.3		At 890MHz
Efficiency	%		36		At 890MHz
Operating Temperature	°C	-40		85	
Frequency Band	MHz	1710		2170	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		0.6		At 1950MHz
Efficiency	%		45		At 1950MHz
Operating Temperature	°C	-40		85	

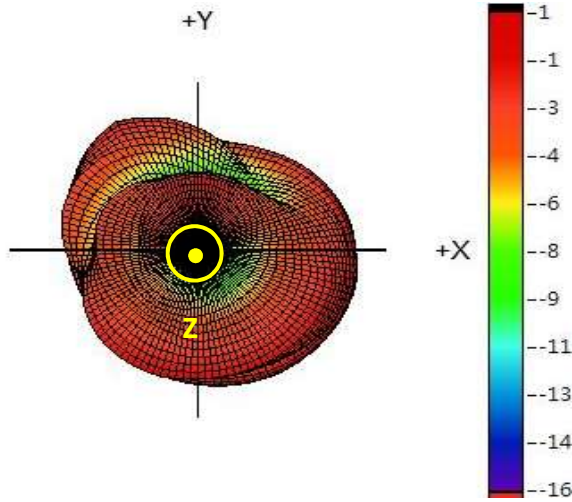
OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



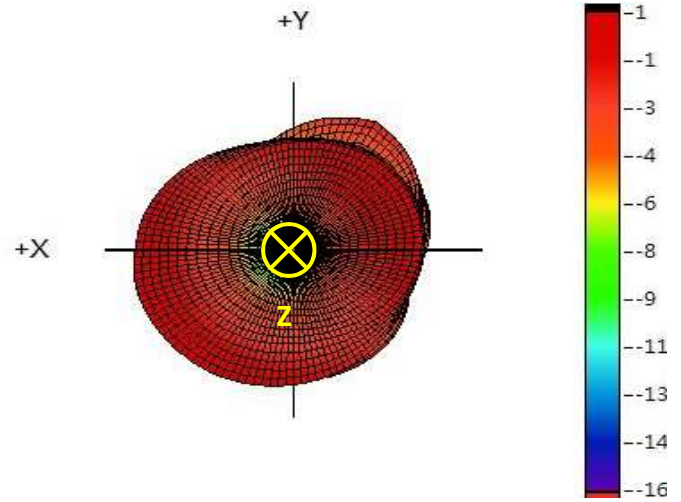
Item	Material
1	FR4 FPCB
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

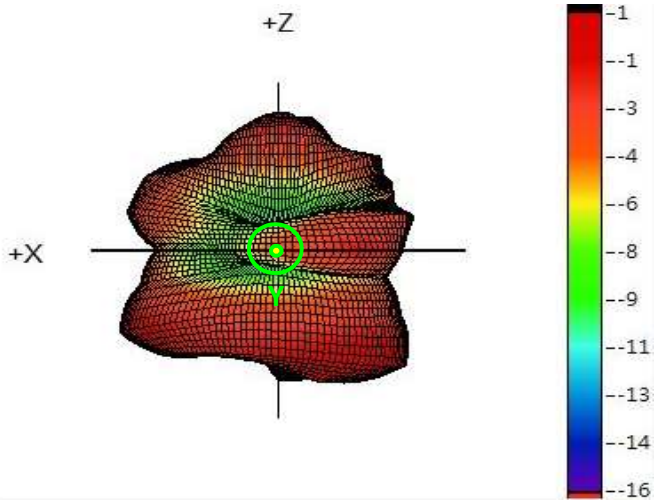
890MHz



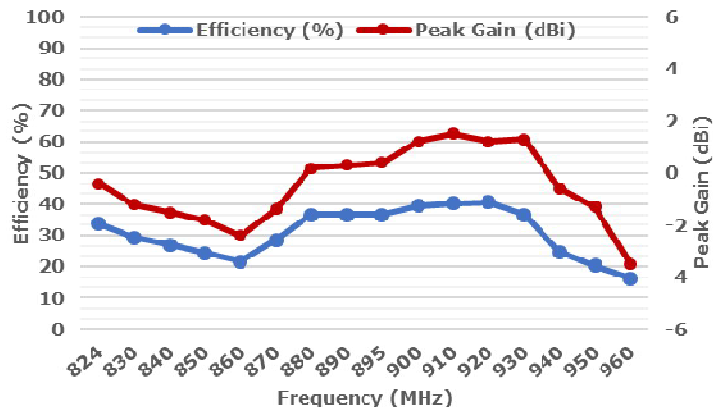
890MHz



890MHz

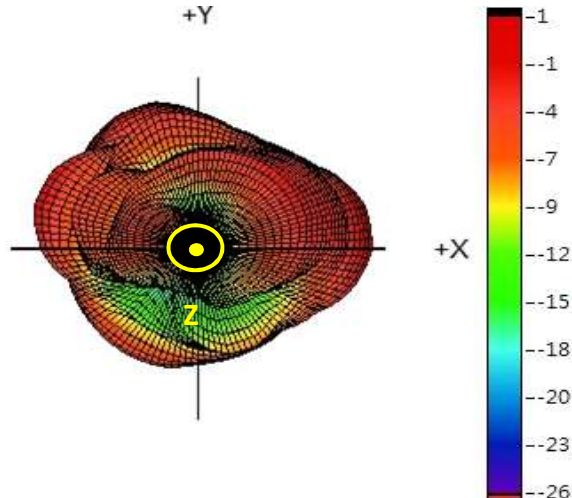


890MHz

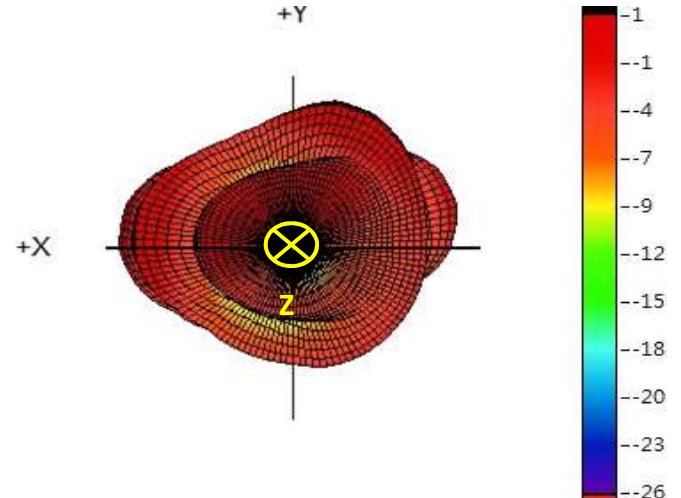


Freq.	824	830	840	850	860	870	880	890	895	900	910	920	930	940	950	960
Eff. (%)	33.8	29.4	27	24.3	21.7	28.6	36.60	36.60	36.7	39.5	40.2	40.6	36.7	24.8	20.3	16.3
P.G.	-0.4	-1.2	-1.5	-1.8	-2.4	-1.4	0.2	0.3	0.4	1.2	1.5	1.2	1.3	-0.6	-1.3	-3.5

1950MHz

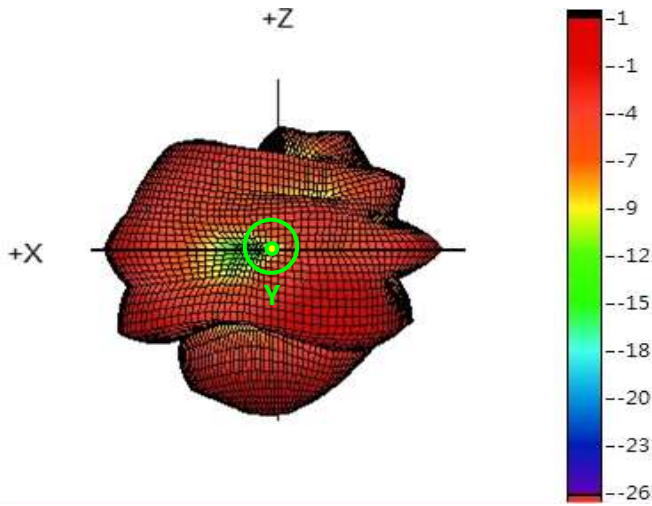


1950MHz

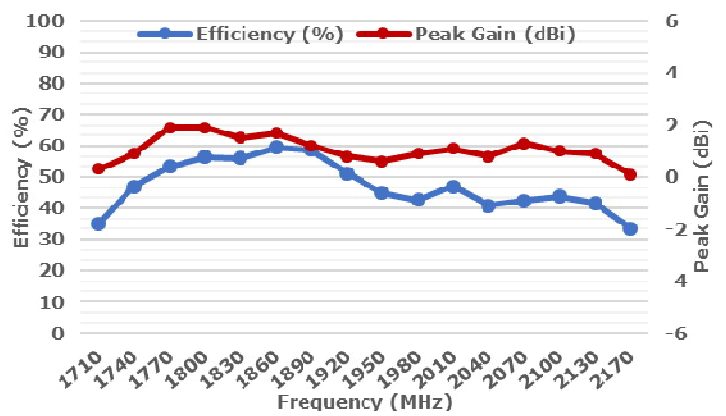


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

1950MHz



1950MHz



Freq.	1710	1740	1770	1800	1830	1860	1890	1920	1950	1980	2010	2040	2070	2100	2130	2170
Eff. (%)	35.1	47	53.4	56.5	56.1	59.4	58.70	51.20	44.9	42.6	47	40.8	42.4	43.7	41.6	33.6
P.G.	0.3	0.9	1.9	1.9	1.5	1.7	1.2	0.8	0.6	0.9	1.1	0.8	1.3	1	0.9	0.1

ELECTRICAL TEST

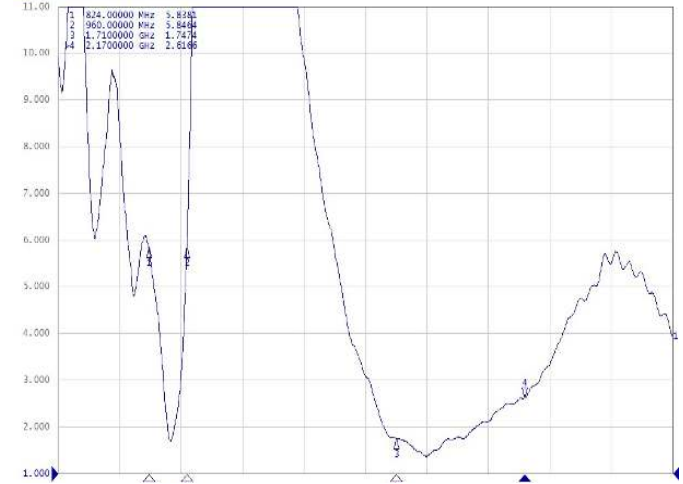
RETURN LOSS

S22 Log Mag 10.00 dB / Ref 0.000 dB [F1]



VSWR

S22 SWR 1.000 / Ref 1.000 [F1]



ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

High Temperature Test	85°C for 500 hours, and then to normal temperature/humidity for 24hours.
Low Temperature Test	-30°C for 500 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	85°C / 90-95% for 96 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-30°C for 30 min and +85°C for 30 min. 5 cycles, then expose to normal temperature/humidity for 24 hours or more.
Vibration Test	5 to 200 to 5Hz, swept in 10min, 4.5G at max(2mm amplitude), in X and Y directions for 2 hours each and in Z direction for 4 hours.